

DC-DC CONVERTER

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Abstract

A DC-DC converter is provided with a series circuit formed by an inductor and a capacitor, an output voltage for a load being tapped off across the capacitor and the load bringing about a load current. The converter also has a changeover switch for connecting an input voltage to the series circuit or for short-circuiting the series circuit and a control circuit for controlling the changeover switch in such a way that the changeover switch alternately short-circuits the series circuit or connects it to the input voltage. The converter also has a means for increasing a resistance in series with the series circuit at least in the event of the series circuit being short-circuited by means of the changeover switch, if the load current falls by a specific value.

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